

**NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW**

The drawing(s) filed (insert date) 06/22/05 are:

- A. ☒ approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
B. ☐ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. Corrected drawings are required.

**1. DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).

☐ Color drawings are not acceptable until petition is granted. Fig(s) \_\_\_\_\_  
☐ Pencil and non black ink not permitted. Fig(s) \_\_\_\_\_

**2. PHOTOGRAPHS.** 37 CFR 1.84(b)

☐ One (1) full-tone set is required. Fig(s) \_\_\_\_\_  
☐ Photographs may not be mounted. 37 CFR 1.84(e)  
☐ Photographs must meet paper size requirements of 37 CFR 1.84(f). Fig(s) \_\_\_\_\_  
☐ Poor quality (half-tone). Fig(s) \_\_\_\_\_

**3. TYPE OF PAPER.** 37 CFR 1.84(e)

☐ Paper not flexible, strong, white, and durable. Fig(s) \_\_\_\_\_  
☐ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) \_\_\_\_\_

**4. SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:

21.0 cm by 29.7 cm (DIN size A4) or  
21.6 cm by 27.9 cm (8 1/2 x 11 inches)  
☐ All drawing sheets not the same size. Sheet(s) \_\_\_\_\_  
☐ Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_

**5. MARGINS.** 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

☐ Margins not acceptable. Fig(s) \_\_\_\_\_  
☐ Top (T) ☐ Left (L)  
☐ Right (R) ☐ Bottom (B)

**6. VIEWS.** 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed.

☐ Views not labeled separately or properly. Fig(s) \_\_\_\_\_

**7. SECTIONAL VIEWS.** 37 CFR 1.84(h)(3)

☐ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) \_\_\_\_\_

**8. ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)

☐ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_

**9. SCALE.** 37 CFR 1.84(k)

☐ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) \_\_\_\_\_

**10. CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(l)

☐ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) \_\_\_\_\_

**11. SHADING.** 37 CFR 1.84(m)

☐ Solid black areas pale. Fig(s) \_\_\_\_\_  
☐ Solid black shading not permitted. Fig(s) \_\_\_\_\_

**12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)

☐ Numbers and reference characters not plain and legible. Fig(s) \_\_\_\_\_  
☐ Figure legends are poor. Fig(s) \_\_\_\_\_  
☐ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) \_\_\_\_\_  
☐ English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) \_\_\_\_\_  
☐ Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s) \_\_\_\_\_

**13. LEAD LINES.** 37 CFR 1.84(q)

☐ Lead lines missing. Fig(s) \_\_\_\_\_

**14. NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(t)

☐ Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Sheet(s) \_\_\_\_\_

**15. NUMBERING OF VIEWS.** 37 CFR 1.84(u)

☐ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_

**16. DESIGN DRAWINGS.** 37 CFR 1.152

☐ Surface shading shown not appropriate. Fig(s) \_\_\_\_\_  
☐ Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s) \_\_\_\_\_

**COMMENTS:**

Reviewer: Tang

If you have questions, call (703) 305-8404.

Date: 06/22/05

Attachment to Paper No. \_\_\_\_\_

March 18, 2005

Attorney Docket No.

05573US2  
PHI 1134R

SERIAL NO. 09/659,835

09/658835

INVENTOR: DUVICK, et al.

TITLE: AMINO POLYOL AMINE OXIDASE  
POLYNUCLEOTIDES AND RELATED  
POLYPEPTIDES AND METHODS OF USE

**Please acknowledge receipt:**

Letter to Official Draftsperson (2 pages)

Copy of original postcard of filing 12/29/2003

Copy of Letter to Official Draftsperson filed 12/29/2003  
(2 pages)

2 Replacement Sheets of Formal Drawings

Copy of Notice of Draftsperson Patent Drawing Review  
LATA/bja

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT : DUVICK, et al.  
SERIAL NO : ~~09/659,835~~ 09/658835  
FILED : September 8, 2000  
TITLE : AMINO POLYOL AMINE OXIDASE POLYNUCLEOTIDES AND  
RELATED POLYPEPTIDES AND METHODS OF USE

Grp./A.U. : 1638  
Examiner : IBRAHIM, Medina Ahmed  
Conf. No. : 2865  
Docket No. : P05573US2 PHI 1134R

**LETTER TO OFFICIAL DRAFTSPERSON  
(37 C.F.R. § 1.85)**

**Mail Stop Issue Fee**  
**Attn: Official Draftsperson**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Per my telephone conversation with Draftsperson Tang today, attached are original replacement drawings and copies of the transmittals of the original filing of December 22, 2003.  
Reconsideration and allowance is respectfully requested.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**

☒ deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Mail Stop ISSUE FEE, Alexandria, VA 22313-1450.

**FACSIMILE**

☐ transmitted by facsimile to the Patent and Trademark Office, Art Unit 1638 at Fax No. (703) 872-\_\_\_\_\_.

Date: 3/18/05

  
Lila A. T. Akrad

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lila A. T. Akrad". The signature is fluid and cursive, with the first name "Lila" being the most prominent.

LILA A. T. AKRAD, Reg. No. 52,550  
McKEE, VOORHEES & SEASE, P.L.C.  
801 Grand Avenue, Suite 3200  
Des Moines, Iowa 50309-2721  
Phone No: (515) 288-3667  
Fax No: (515) 288-1338  
**CUSTOMER NO: 27142**

Attorneys of Record

- bja -

December 22, 2003 Attorney Docket No. P05573US2

INVENTOR: DUVICK, et al.  
TITLE: AMINO POLYOL AMINE OXIDASE  
POLYNUCLEOTIDES & RELATED  
POLYPEPTIDES AND METHODS OF USE  
US SERIAL: 09/659,835  
FILED: September 8, 2000 658 835

Please acknowledge receipt:

Letter to Official Draftsperson (37 CFR 1.85) (2 pages)  
2 Sheets Replacement Formal Drawings  
Copy of Notice of Draftsperson's Patent Drawing Review

LATA/bja



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT : DUVICK, et al.  
SERIAL NO : 09/659,835  
FILED : September 8, 2000  
TITLE : AMINO POLYOL AMINE OXIDASE POLYNUCLEOTIDES AND  
RELATED POLYPEPTIDES AND METHODS OF USE

Grp./A.U. : 1638  
Examiner : IBRAHIM, Medina Ahmed  
Conf. No. : 2865  
Docket No. : P05573US2 PHI 1134R

**LETTER TO OFFICIAL DRAFTSPERSON  
(37 C.F.R. § 1.85)**

**Mail Stop Issue Fee**  
**Attn: Official Draftsperson**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Dear Sir:

In response to the Notice of Allowability mailed October 3, 2003, please amend the above-identified application as follows:

Applicants respectfully submit that the drawings have now been amended to be in compliance with 37 C.F.R. § 1.84. Please substitute the new drawing sheets 1 and 2 containing Figures 1A-1B (sheet 1) and 2A-2B (sheet 2) for the drawing sheets presently of record. No new matter has been added.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**

☒ deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Mail Stop ISSUE FEE, Alexandria, VA 22313-1450.

**FACSIMILE**

☐ transmitted by facsimile to the Patent and Trademark Office, Art Unit 1638 at Fax No. (703) 872-\_\_\_\_\_.

Date: 12/22/2003

  
Lila A. T. Akrad

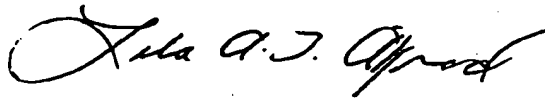
## REMARKS

These drawing sheets include the corrections as required in the Notice of Draftperson's Patent Drawing Review enclosed herewith, dated September 25, 2003 in the above application. Please submit these new formal drawings in the place of the drawings presently of record.

No fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,



LILA A. T. AKRAD, Reg. No. 52,550  
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Phone No: (515) 288-3667  
Fax No: (515) 288-1338  
CUSTOMER NO: 27142

Attorneys of Record

- bja/LATA -

09/658835

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 9-8-06 are:A. ☐ approved by the Draftsperson under 37 CFR 1.84 or 1.152.B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be supplied according to the instructions on the back of this notice.

<p><b>1. DRAWINGS, 37 CFR 1.84(a):</b> Acceptable categories of drawings: Black ink. Color.</p> <p><input checked="" type="checkbox"/> Color drawings for not acceptable until action is granted. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Color drawings for not acceptable until action is granted. Fig(s) _____</p> <p><b>2. PHOTOGRAPHS, 37 CFR 1.84(b)</b> <input checked="" type="checkbox"/> Full-size and is required. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Photographs may not be mounted. 37 CFR 1.84(c) Fig(s) _____</p> <p><b>3. TYPE OF PAPER, 37 CFR 1.84(d)</b> <input checked="" type="checkbox"/> Paper not flexible, strong, white, and durable. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Erasures, shadings, overworkings, interferences, folds, copy machine marks not accepted. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Mylar, vellum paper is not acceptable (too thin). Fig(s) _____</p> <p><b>4. SIZE OF PAPER, 37 CFR 1.84(f):</b> Acceptable sizes: 21.6 cm by 27.9 cm (8 1/2 x 11 inches) Fig(s) _____</p> <p><input checked="" type="checkbox"/> Drawing sheets not the same size. Fig(s) _____</p> <p><b>5. MARGINS, 37 CFR 1.84(g):</b> Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4.5mm Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____</p> <p><b>6. VIEWS, 37 CFR 1.84(h)</b> REMEMBER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) <input checked="" type="checkbox"/> Breaks needed to show figure as one entity. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Views not labeled separately or properly. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Enlarged view not labeled separately or properly. Fig(s) _____</p> <p><b>7. SECTIONAL VIEWS, 37 CFR 1.84(i)(3)</b> <input checked="" type="checkbox"/> Hatching not indicated for sectional portions of an object. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____</p>	<p><b>8. ARRANGEMENT OF VIEWS, 37 CFR 1.84(j)</b> <input checked="" type="checkbox"/> Views do not appear on a horizontal, top-to-right fashion. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Views are not arranged to show maximum without duplication. Fig(s) _____</p> <p><b>9. CHARACTER OF LINES, NUMBERS, &amp; LETTERS, 37 CFR 1.84(k)</b> <input checked="" type="checkbox"/> Lines, numbers, &amp; letters not uniformly thick and well defined, clean, durable, and black (good line quality). Fig(s) _____</p> <p><b>10. SHADING, 37 CFR 1.84(m)</b> <input checked="" type="checkbox"/> Solid black areas pale. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Solid black shading not permitted. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Shading lines, pale, rough and blurred. Fig(s) _____</p> <p><b>11. NUMBERS, LETTERS, &amp; REFERENCE CHARACTERS, 37 CFR 1.84(n)</b> <input checked="" type="checkbox"/> Numbers and reference characters for parts and legible. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Figures separate two parts. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(n)(1) Fig(s) _____</p> <p><input checked="" type="checkbox"/> English alphabet not used. 37 CFR 1.84(n)(2) Fig(s) _____</p> <p><input checked="" type="checkbox"/> Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(n)(3) Fig(s) _____</p> <p><b>12. LEAD LINES, 37 CFR 1.84(o)</b> <input checked="" type="checkbox"/> Lead lines cross each other. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Lead lines missing. Fig(s) _____</p> <p><b>13. NUMBERING OF SHEETS OF DRAWINGS, 37 CFR 1.84(p)</b> <input checked="" type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Fig(s) _____</p> <p><b>14. NUMBERING OF VIEWS, 37 CFR 1.84(q)</b> <input checked="" type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p><b>15. CORRECTIONS, 37 CFR 1.84(r)</b> <input checked="" type="checkbox"/> Corrections not made from paper PTO 448 dated _____</p> <p><b>16. DESIGN DRAWINGS, 37 CFR 1.85</b> <input checked="" type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____</p> <p><input checked="" type="checkbox"/> Solid black shading not used for color contrast. Fig(s) _____</p>
<p><b>COMMENTS</b></p>	

REVIEWED

DATE

9-23-02

TELEPHONE NO.

ATTACHMENT TO PAPER NO. 09/65-03



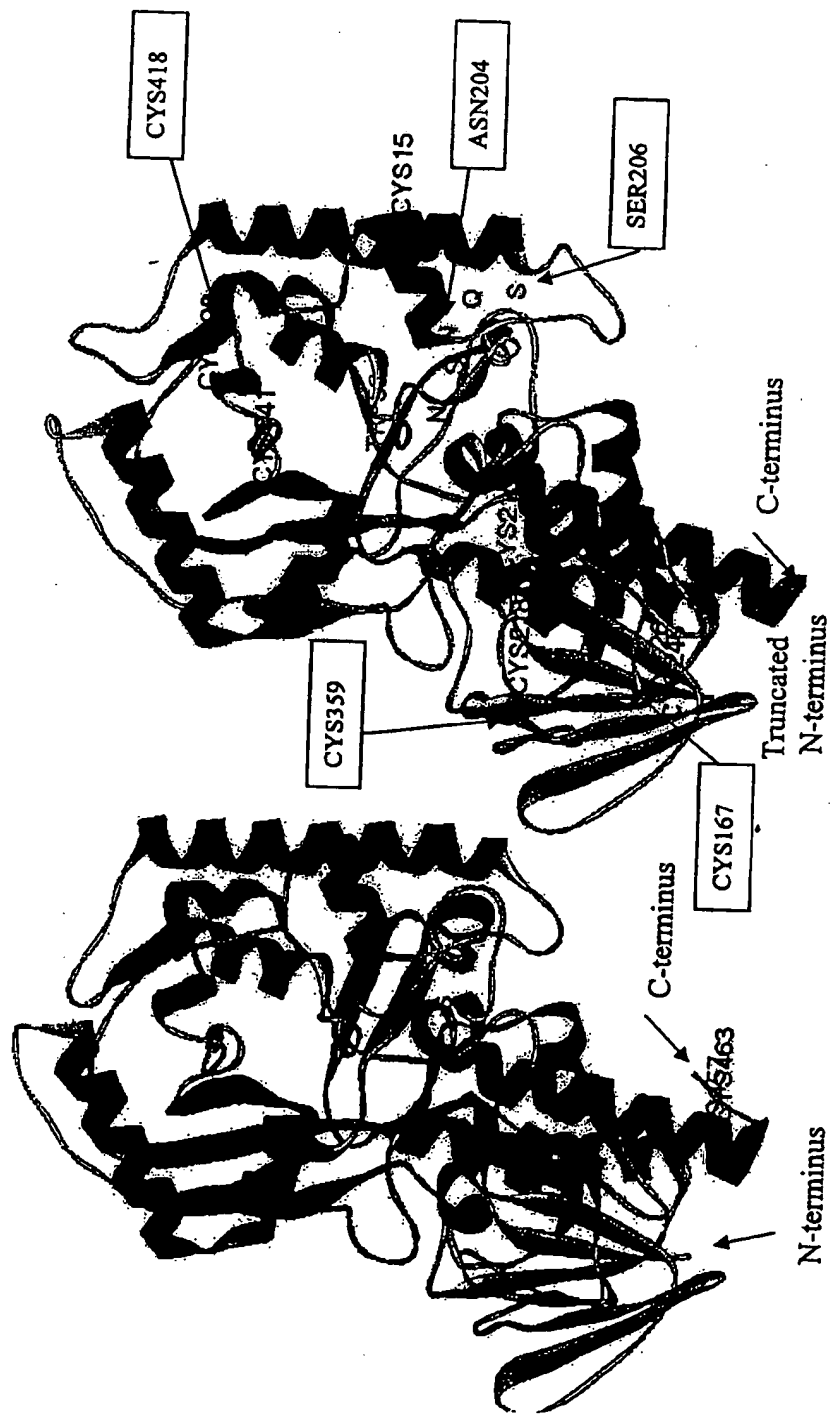


Figure 1A

Figure 1B

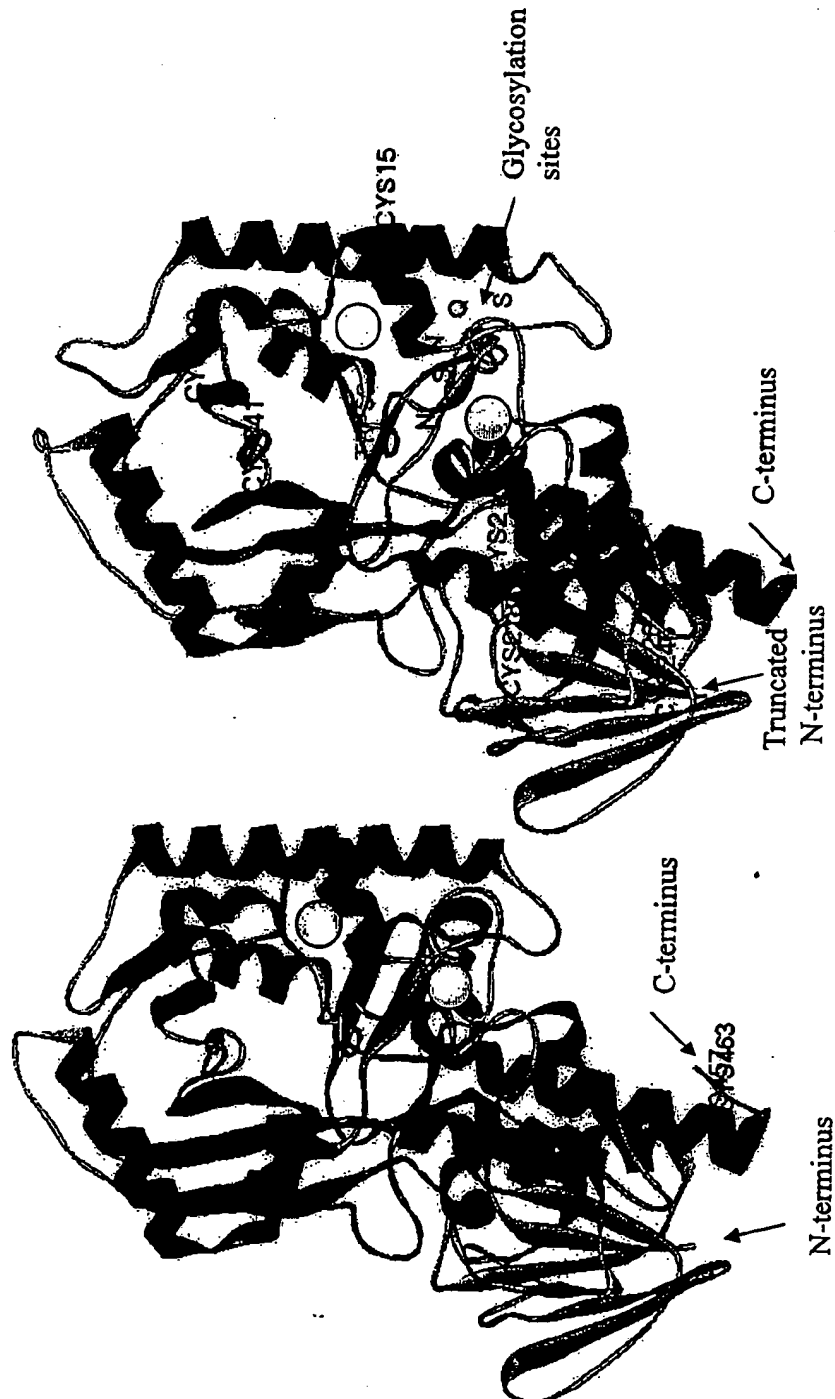


Figure 2B

Figure 2A